

# Algerbrush Cleaning & Tips

Part Number: 912143



## Please read the following before operating the Algerbrush II

The Algerbrush II burr must be sterilized prior to its initial use and following each use thereafter (for sterilization information, refer to section entitled "Sterilization").

The chuck and burr on the Algerbrush II are held together by friction and may become loose during shipment. Prior to each use of the Algerbrush II, check the following:

1. Burr fits snugly within the chuck.
2. Chuck fits snugly on the motor shaft.

Note: if either of the above parts is loose, injury to the patient could result if the assembly falls off during use. Please refer to section entitled "Chuck and Burr Maintenance".

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## Operation of the Algerbrush II;

To start the Algerbrush II, turn end nut in "ON" direction indicated on Algerbrush II label, i.e., to the right.

To stop the Algerbrush II, turn end nut in "OFF" direction indicated on Algerbrush II label, i.e., to the left.

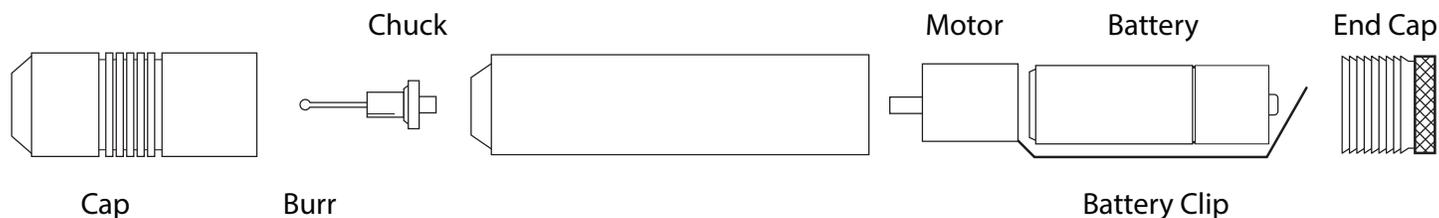
Note: To ensure Algerbrush II is "OFF", check that the chuck and burr have stopped spinning.

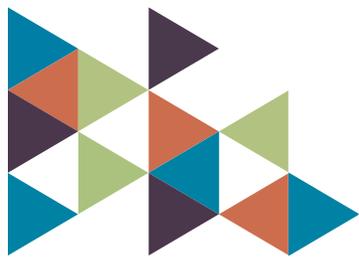
## Installation / Changing of Battery:

Note: When changing battery, care should be taken not to put pressure on the battery clip as it may break at the point where it attaches to the motor.

1. Remove chuck and burr assembly (see section entitled "Installation of Chuck and Burr Assembly").
2. Remove end nut.
3. Slide motor and battery assembly out of housing.
4. Battery must be installed - **Pole** first (next to motor; see Algerbrush II diagram above) (If battery installed + **Pole** first, the Algerbrush II will not function properly)
5. Place new battery between motor and battery clip (- **Pole** next to motor)
6. Re-insert motor and battery assembly into housing.
7. Ensure motor seated properly in housing by checking the following:
  - Motor shaft centered in hole at tip of housing.
  - Tip of motor shaft just even with top of housing.
8. Partially tighten end nut.

Note: if motor starts spinning, see section above entitled "Operation of Algerbrush II" for instructions to stop motor.





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## Installation of Chuck and Burr Assembly:

Note: Motor must be spinning when installing chuck and burr assembly to ensure motor seated properly

To install, ensure motor is spinning, i.e., Algerbrush II is "ON"

1. Gently push chuck and burr assembly onto motor shaft.
2. Base of chuck should be close to, but not touching, top of housing.
3. Turn "OFF" Algerbrush II until ready to use.

To remove

1. Grasp base of chuck with fingers and pull away from motor shaft - or
2. Gently pry chuck off motor shaft with suitable instrument.
3. Turn "OFF" Algerbrush II until ready to use.

To replace burr,

1. Remove chuck and burr assembly from motor shaft (per instructions above)
2. While grasping base of chuck with fingers, grasp shaft of burr with Foley hemostat and pull apart.
3. To insert new (sterilized) burr, use Foley hemostat to grasp burr (grasp in middle of shaft); then, push chuck onto bottom of burr shaft until snug Note: burr fits into "longer" end of chuck; see drawing of chuck and burr on front page of instruction sheet.

## Chuck and Burr Maintenance:

Chuck and burr assembly are held together by friction; should they become loose or not fit snugly, use the following procedures to tighten.

If base of chuck becomes loose on motor shaft, pinch base of chuck gently with small pliers as shown in Figure 1 below (Note: slit in base of chuck should be facing directly away from you)

If burr becomes loose in chuck, pinch longer portion of chuck gently with small pliers as shown in Figure 1 below (Note: slit in longer portion of chuck should be facing directly away from you)



Figure 1

## Sterilization of the Algerbrush II:

**Do not autoclave the entire instrument or it will ruin the Algerbrush.**

- Remove chuck and burr assembly from Algerbrush II per instructions.
- Pulling off burr by itself is fine, but burrs are small and hard to handle; therefore, it is convenient to have several chuck and burr assemblies on hand.
- Sterilize chuck and burr assembly only using a Dry Heat sterilizer or by Autoclaving.
- If Autoclaved, burr must be debrided and thoroughly dried first.
- Housing can be cleaned by wiping with alcohol.

## The recommended sterilizing protocol is:

High Vacuum (pre-vacuum) Steam Sterilization:  
270°F (132°C) for 4 minutes.

Gravity Displacement Steam Sterilization:  
250°F (121° C) for 35 minutes or 270°F (132°C) for 15 minutes.



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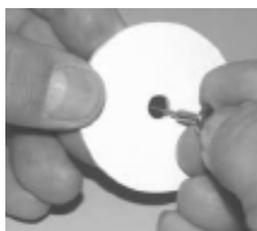
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1. Remove Chuck and bit from Algerbrush Motor



2. Insert Bit and Chuck assembly into back of Large Metal Washer.

Note: Pterygium bits are not intended to be removed from the chuck.



3. Secure Chuck in the Metal Washer with thumb

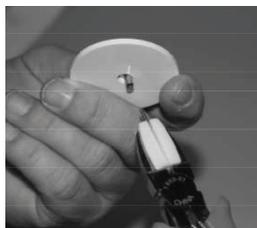


4. From the other side of the washer, grip the bit (only) by the shaft with the Nylon tipped pliers. Do not grab by the tip, use the shaft.



5. Pull the bit out of the chuck

Repeat the procedure for re-insertion of the bit.



## Frequently Asked Algerbrush Questions

The following represents a compilation of frequently asked questions concerning the Algerbrush and the Algerbrush II. We will strive to keep this list up to date as questions arise from our customers. Please contact us with any additional information.

Q. What are the primary differences between the Algerbrush and the Algerbrush II?

A.

1. The Algerbrush II has a different "stop / start" mechanism. The original Algerbrush consisted of a "spin start" mechanism. The Algerbrush II will start by simply tightening the end nut.
2. The original Algerbrush stops spinning when excessive pressure is applied to the operating area. The Algerbrush II will also stop spinning when excessive pressure is applied to the operating area. However, the Algerbrush II will restart once pressure is released.
3. The Algerbrush II motor / battery assembly is different. The battery in the original Algerbrush was inserted + Pole first (touching the motor).
4. The Algerbrush II motor assembly consists of a 2" L-shaped brass contact strip soldered to the motor. The battery is placed between the motor and the end of the brass contact strip (with the - Pole closest to the motor). Then, the entire assembly is placed inside the housing.
5. The Algerbrush II has a different chuck assembly.
6. The Algerbrush II motor has slightly more torque than the original motor for the Algerbrush. Also, the Algerbrush II motor is much quieter and a better quality motor.

Q. Can the burrs be re-used?

A. The burrs used in the Algerbrush and the Algerbrush II are very high quality carbide steel which can be re-used a number of times provided they are properly sterilized following each use.

Q. Are the burrs the same for both the Algerbrush and Algerbrush II?

A. Yes, the same burr can be used in either the Algerbrush or Algerbrush II. However, it is important to remember the "chuck" assembly to attach the burr to the hand piece is different for the two models.



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Q. What size burrs are available for the Algerbrush and Algerbrush II?

A. Two sizes are available: 1mm (available in both pre-sterilized or unsterilized packaging) and the 1/2 mm (also available in the pre-sterilized or unsterilized packaging).

Q. What measurement is the size "1/2 mm" or "1 mm" referring to?

A. This measurement refers to the diameter of the very tip of the burr. The 1 mm burr has a slightly larger diameter tip than the 1/2 mm burr. However, the shaft diameter of either burr is the same which means they both will fit into the same chuck assembly.

Q. Do you need a separate hand piece to use the different size burrs?

A. No, the same hand piece can be used for either size burr. for Cleaning Algerbrushes and Tips

Q. How do I sterilize the instrument?

A. First of all, the instrument as a whole cannot be sterilized. Autoclaving the entire instrument will ruin the instrument motor and battery. The body of the Algerbrush and cap are to be wiped clean with alcohol before and after each use.

## PROCEDURE:

- a) The simplest procedure is to remove the chuck and burr as one unit and sterilize them both. The burr itself is very small and can be easily lost if separated from the chuck.
- b) First, clean and debride the chuck and burr, then thoroughly DRY them before sterilizing. The burr end is carbide steel and will rust or corrode if not properly cleaned and dried. After drying, package them individually.
- c) The burr and chuck can be sterilized either in a Chem-Clave (chemical autoclave), dry-heat sterilizer such as the Cox Sterilizer, autoclaved, or gassed.
- d) After sterilization examine the burr to make sure it is free of rust before storing.
- e) See instructions when re-assembling the Algerbrush or Algerbrush II to make sure the chuck is secure on the motor shaft and the burr is secure in the chuck. These are both held in place by friction.

Q. Is the original Algerbrush still available?

A. No, the motor manufacturer ceased production of the motor used in the original Algerbrush.